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Amendments to the Claims:

Please cancel claims 24-33 without prejudice to or disclaimer of the subject matter contained therein. These claims will be pursued in a continuation application.

- 1. (previously presented) An isolated DNA molecule comprising a nucleotide sequence selected from the group consisting of:
- a) a nucleotide sequence encoding a poly ADP-ribose polymerase having the amino acid sequence set forth in SEQ ID NO. 2;
 - b) the nucleotide sequence set forth in SEQ ID NO. 1; and
- c) a nucleotide sequence that is antisense to the full-length sequence set forth in SEQ ID NO. 1.
- 2. (previously presented) A chimeric nucleic acid sequence comprising a promoter capable of driving expression of a nucleic acid sequence in a plant cell operably linked to a nucleotide sequence of claim 1.
- 3. (previously presented) The chimeric nucleic acid sequence of claim 2, wherein the nucleotide sequence encodes a poly ADP-ribose polymerase having the amino acid sequence set forth in SEQ ID NO. 2.
- 4. (previously presented) The chimeric nucleic acid sequence of claim 3, wherein said nucleotide sequence is the nucleotide sequence set forth in SEQ ID NO. 1.
- 5. (previously presented) A vector comprising the chimeric nucleic acid sequence of claim 4.
- 6 (previously presented) A plant cell transformed with the chimeric nucleic acid sequence of claim 4.

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- 7. (previously presented) A transformed plant comprising the chimeric nucleic acid sequence of claim 4.
- 8. (previously presented) The chimeric nucleic acid sequence of claim 2, wherein the nucleotide sequence is antisense to the full-length sequence set forth in SEQ ID NO.1.
- 9, (previously presented) A vector comprising the chimeric nucleic acid sequence of claim 8.
 - 10. (original) A plant cell transformed with the vector of claim 9.
- 11. (previously presented) A transformed plant comprising the chimeric nucleic acid sequence of claim 8.
- 12. (previously presented) A transformed plant having incorporated into its genome a DNA molecule, said molecule comprising a promoter capable of driving expression of a nucleic acid sequence in a plant cell operably linked to a nucleotide sequence selected from the group consisting of:
- a) a nucleotide sequence encoding a poly ADP-ribose polymerase having the
 amino acid sequence set forth in SEQ ID NO. 2;
 - b) the nucleotide sequence set forth in SEQ ID NO. 1; and
- c) a nucleotide sequence that is antisense to the full-length sequence set forth in SEQ ID NO. 1.
- 13. (original) The transformed plant of claim 12, wherein the nucleotide sequence encodes a poly ADP-ribose polymerase having the amino acid sequence set forth in SEQ 1D NO. 2.
- 14. (original) The transformed plant of claim 13, wherein said coding sequence is the nucleotide sequence set forth in SEQ ID NO. 1.

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- 15. (previously presented) The transformed plant of claim 12, wherein the nucleotide sequence is antisense to the full-length sequence set forth in SEQ ID NO. 1.
 - 16. (canceled)
 - 17. (original) The transformed plant of claim 12, wherein said plant is a dicot.
- 18. (previously presented) The transformed plant of claim 12, wherein said plant is a monocot.
 - 19. (original) The transformed plant of claim 18, wherein said plant is maize.
 - 20. (original) Seed of the plant of any one of claims 17-19.
- 21. (previously presented) A method for modulating the metabolic state of a plant cell, said method comprising transforming said plant with a DNA construct, said construct comprising a promoter that drives expression in a plant cell operably linked with a nucleotide sequence selected from the group consisting of:
- a) a nucleotide sequence encoding a poly ADP-ribose polymerase having the amino acid sequence set forth in SEQ ID NO. 2;
 - b) the nucleotide sequence set forth in SEQ ID NO. 1; and
- c) a nucleotide sequence that is antisense to the full-length sequence set forth in SEQ ID NO. 1.
- 22. (original) The method of claim 21, wherein the nucleotide sequence encodes a poly ADP-ribose polymerase having the amino acid sequence set forth in SEQ ID NO. 2.
- 23. (original) The method of claim 22, wherein said coding sequence is the nucleotide sequence set forth in SEQ ID NO. 1.

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- 24. (canceled)
- 25. (canceled)
- 26. (canceled)
- 27. (canceled)
- 28. (canceled)
- 29. (canceled)
- 30. (canceled)
- 31. (canceled)
- 32. (canceled)
- 33. (canceled)